

at least one of which is of $[CH_2=C<]$ a vinyl [a.] group and optionally of a polyfunctional grafting-agent possessing unsaturated groups in its molecule, at least one of which is an [of $CH_2=C-CH_2-$] allyl [type] group, [the said nucleus containing a molar amount of crosslinking agent and optionally of grafting agent ranging from 0.05 % to 5 %,]

2) of not more than 80 % ^{total} [to 0 %] by weight, [and preferably of 90 % to 10 %,] of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, or of a grafting agent possessing [a plurality of unsaturated groups in its molecule, at least one of which is of $CH_2=CH-CH_2-$] allyl [type] groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity.

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

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- Claim 2, line 1: replace "Impact additive" with --A composition--.
- Claim 3, line 1: replace "Impact additive" with --A composition-- and replace "either of" with --claim 1--;
- line 2: delete "Claims 1 and 2".
- Claim 4, line 1: replace "Impact additive" with --A composition-- and replace "one of" with --claim 1--;
- line 2: delete "Claims 1 to 3".
- Claim 5, line 1: replace "Impact additive" with --A composition--.
- Claim 6, line 1: replace "Impact additive" with --A composition--.
- Claim 7, line 1: replace "Impact additive" with --A composition-- and replace "either of" with --claim 1--;
- line 2: delete "Claims 1 and 5".
- Claim 8, line 1: replace "Impact additive" with --A composition-- and replace "either of" with --claim 1--;

- line 2: delete "Claims 1 and 6".
- Claim 9, line 1: replace "Impact additive" with --A composition--.
- Claim 10, line 1: replace "Impact additive" with --A composition--.
- Claim 11, line 1: replace "Impact additive" with --A composition-- and replace
"either of" with --claim 1--;
- line 2: delete "Claims 1 and 9".
- Claim 12, line 1: replace "Impact additive" with --A composition-- and replace
"either of" with --claim 1--;
- line 2: delete "Claims 1 and 10".
- Claim 13, line 1: replace "Impact additive" with --A composition-- and replace
^{one} "either of" with --claim 1--;
- line 2: delete "Claims 1 to 12".
- Claim 14, line 1: replace "Impact additive" with --A composition-- and replace
^{one} "either of" with --claim 1--;
- line 2: delete "Claims 1 to 4 and 10 to 12".
- Claim 15, line 1: replace "Impact additive" with --A composition-- and replace
^{one} "either of" with --claim 1--;
- line 2: delete "Claims 1 to 4".
- Claim 16, line 1: replace "Impact additive" with --A composition-- and replace
"either of" with --claim 1--;
- line 2: delete "Claims 1 and 3".
- Claim 17, line 1: replace "Impact additive" with --A composition-- and replace
^{one} "either of" with --claim 1--;
- line 2: delete "Claims 1 to 3".
- Claim 18, line 1: replace "Impact additive" with --A composition-- and replace
"Claims 16" with --claim 16--;
- line 2: delete "and 17".
- Claim 19, line 1: replace "Impact additive" with --A composition-- and replace
"Claims 16" with --claim 16--.
- line 2: delete "and 17".

- Claim 20, line 1: replace "Impact additive" with --A composition-- and replace "Claims 16" with --claim 16--;
line 2: delete "and 17".
- Claim 21, line 1: replace "Impact additive" with --A composition-- and replace "Claims 16" with --claim 16--;
line 2: delete "and 17".
- Claim 22, line 1: replace "Impact additive" with --A composition-- and replace "Claims 16" with --claim 16--;
line 2: delete "and 17".
- Claim 23, line 1: replace "Impact additive" with --A composition-- and replace "one of" with --claim 1--;
line 2: delete "Claims 1 to 3".
- Claim 24, line 1: replace "Impact additive" with --A composition--.
- Claim 25, line 1: replace "Impact additive" with --A composition--.
- Claim 26, line 1: replace "Impact additive" with --A composition-- and replace "one of" with --claim 23--;
line 2: delete "Claims 23 to 25".
- Claim 27, line 1: replace "Impact additive" with --A composition-- and delete "or";
line 2: delete "2".

28. (Amended) A thermoplastic [Thermoplastic] polymer composition containing impact additive of the core/shell type composed of a core based on alkyl acrylate or on a polyorganosiloxane rubber and a shell based on poly(alkyl methacrylate), or on a styrene-acrylonitrile copolymer, characterized in that the said impact additive comprises from:

a) 70 % to 90 % by weight of a crosslinked elastomeric core which is composed:

1) of 20 % to less than 100 % by weight of a nucleus composed of a copolymer (I) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 5 to 12, of a polyfunctional crosslinking agent possessing unsaturated groups in its molecule, at least one of which is of a vinyl group, and optionally of a polyfunctional grafting agent possessing unsaturated groups in its molecule, at least one of which is an allyl group.

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4) of not more than 80 % [to 0 %] by weight, of a covering composed of a copolymer (II) of n-alkyl acrylate, the alkyl group of which has a carbon number ranging from 4 to 12, or of a grafting agent possessing allyl groups, the said covering containing a molar amount of grafting agent ranging from 0.05 % to 2.5 %, said grafting agent having only allyl functional groups, all having the same reactivity.

b) 30 % to 10 % by weight of a shell grafted onto the said core composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer [according to any one of Claims 1 to 27].

29. (Amended) A composition [Composition] according to Claim 28, characterized in that the thermoplastic polymer is composed of at least one polycondensate selected from the group consisting of [one or a number of polymers of the polycondensates type, in particular] polyesters, [such as poly] (butylene terephthalate), polyamides, polyesteretheramides, polycarbonates and mixtures thereof [alloys of the abovementioned polymers]

30. (Amended) A composition [Composition] according to Claim 28, characterized in that the thermoplastic polymer is composed of one or a number of polymers selected [chosen] from the group consisting of [formed by] poly(alkyl methacrylate)s, [and in] particular poly(methyl methacrylate) optionally superchlorinated vinyl chloride homopolymers, [;] the copolymers which results from the copolymerization of vinyl chloride with at least one [one or a number of] ethylenically unsaturated comonomers and which contain at least 80 % by weight of polymerized vinyl chloride; 1,1-dichloro-ethylene homopolymer; and [or] 1,1-difluoroethylene homopolymer.

Claim 31, ✓

line 1: replace "Composition" with --A composition--.

Claim 32, ✓

line 1: replace "Composition" with --A composition--.

- Claim 33, line 1: replace "Composition" with --A composition-- and replace "one of Claims" with --claim 28--; and
line 2: delete "28 to 32".
- Claim 34, line 1: replace "Composition" with --A composition--.
- Claim 36, line 1: replace "Composition" with --A composition--.
- Claim 37, line 1: replace "impact additive" with --composition--.
- Claim 38, line 1: replace "impact additive" with --composition--.
- Claim 39, line 1: replace "impact additive" with --composition--.
- Claim 40, line 1: replace "An impact additive" with --A composition--.

Add claims 41 through 46 as follows:

- 41. A composition according to claim 28, wherein said impact additive comprises:
- 70-90 % by weight of a cross linked elastomeric core compound of:
 - 20-90 % by weight of a nucleus comprising a copolymer of n-octyl acrylate and 1,4-butanediol diacrylate, and
 - surrounding said nucleus, ^{above 690, but} not more than 80% by weight of a covering comprising a copolymer of n-octyl acrylate and diallyl maleate, and
 - surrounding said core, 30-10 % by weight of a shell grafted onto the said core, said shell composed of a polymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, or alternatively of a statistical copolymer of an alkyl methacrylate, the alkyl group of which has a carbon number ranging from 1 to 4, and of an alkyl acrylate, the alkyl group of which has a carbon number ranging from 1 to 8, containing a molar amount of alkyl acrylate ranging from 5 % to 40 %, or alternatively composed of a styrene-acrylonitrile copolymer.

42. A composition according to claim 41, wherein said nucleus is about 90 % by weight of said core and, said covering is about 10 % by weight.

43. A composition according to claim 42, wherein said shell consists essentially of poly(methyl methacrylate).